

EC centrifugal fan

backward curved, Ø 225



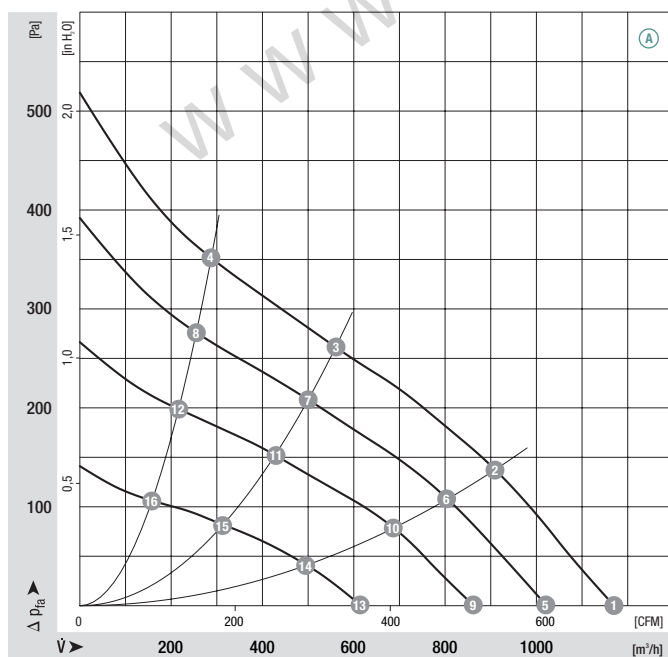
- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
Rotor: Galvanised
Electronics enclosure: Die-cast aluminium
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data		Curve	Nominal voltage	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	rpm	W	A	°C	p. 601
R3G 225	M3G 055-CF	Ⓐ	1~ 230	50/60	2500	95	0.75	-25 to +60	H1)

subject to alterations

(1) Nominal data in operating point with maximum load and 230 VAC

Curves



	n [rpm]	P ₁ [W]	I [A]	L _{pA} [dB(A)]	η _{IL} [%]
Ⓐ 1	2500	80	0.60	69	—
Ⓐ 2	2380	88	0.65	62	60
Ⓐ 3	2290	94	0.70	57	61
Ⓐ 4	2410	84	0.65	62	45
Ⓐ 5	2190	56	0.45	66	—
Ⓐ 6	2110	61	0.45	60	61
Ⓐ 7	2050	66	0.50	54	61
Ⓐ 8	2140	60	0.45	60	45
Ⓐ 9	1830	34	0.25	62	—
Ⓐ 10	1790	38	0.30	57	60
Ⓐ 11	1750	41	0.30	51	61
Ⓐ 12	1810	36	0.30	54	44
Ⓐ 13	1350	16	0.15	56	—
Ⓐ 14	1320	17	0.15	50	50
Ⓐ 15	1290	19	0.15	45	53
Ⓐ 16	1330	16	0.15	45	39

- **Technical features:**
 - Control input 0-10 VDC / PWM
 - Output 10 VDC max. 1.1 mA
- **EMC:** Interference emission acc. to EN 61000-6-3
Interference immunity acc. to EN 61000-6-1
Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 60950-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, CE
- **Approvals:** UL, CSA, CCC, GOST are applied for
- Tach output
- Locked-rotor protection



Mass of centrifugal fan



Centrifugal fan

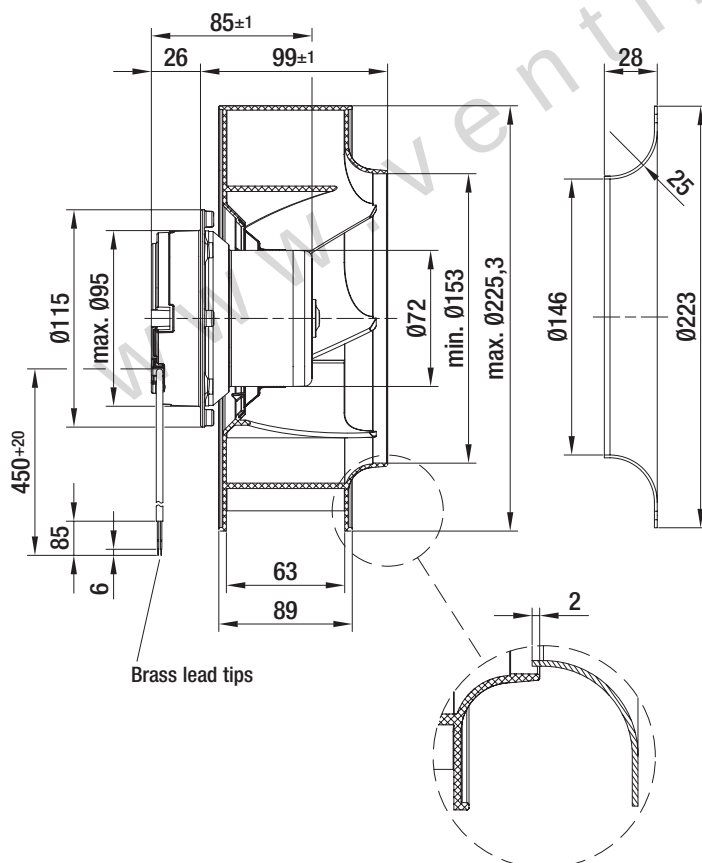
kg

Inlet nozzle (long)

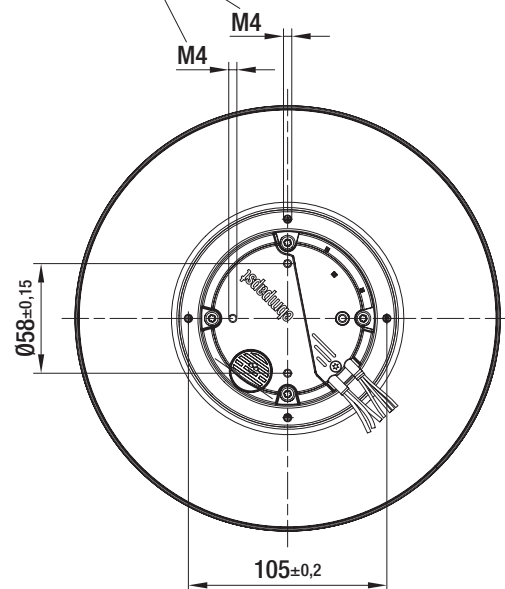
R3G 225-AE11 -02

1.5

96358-2-4013



Depth of screw
max. 6 mm



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Rotor: Galvanised
Electronics enclosure: Die-cast aluminium
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **Mounting position:** Shaft horizontal or rotor on top; rotor on bottom on request
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

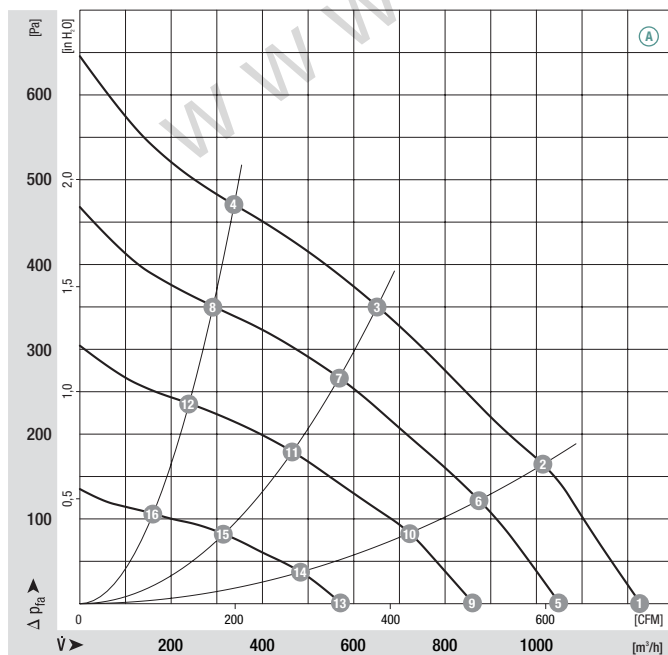
Nominal data

Type	Motor	Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Perm. amb. temp.	Electr. connection
VAC	Hz	rpm	W	A	°C	p. 603			
R3G 225	M3G 074-CF	Ⓐ	1~ 100-130	50/60	2850	160	2.20	-25 to +60	J1)

subject to alterations

(1) Nominal data in operating point with maximum load and 115 VAC

Curves



	n [rpm]	P ₁ [W]	I [A]	L _{pA} [dB(A)]	η _{IL} [%]
Ⓐ 1	2850	131	1.70	70	—
Ⓐ 2	2800	149	1.90	67	50
Ⓐ 3	2760	155	2.00	62	59
Ⓐ 4	2845	136	1.70	66	45
Ⓐ 5	2460	84	1.10	67	—
Ⓐ 6	2420	95	1.30	63	50
Ⓐ 7	2410	102	1.30	59	58
Ⓐ 8	2460	91	1.20	63	44
Ⓐ 9	2020	51	0.70	63	—
Ⓐ 10	1990	58	0.80	61	46
Ⓐ 11	1980	60	0.80	54	56
Ⓐ 12	2010	52	0.70	57	42
Ⓐ 13	1350	20	0.30	56	—
Ⓐ 14	1340	21	0.30	52	37
Ⓐ 15	1340	23	0.40	44	45
Ⓐ 16	1350	21	0.30	35	32

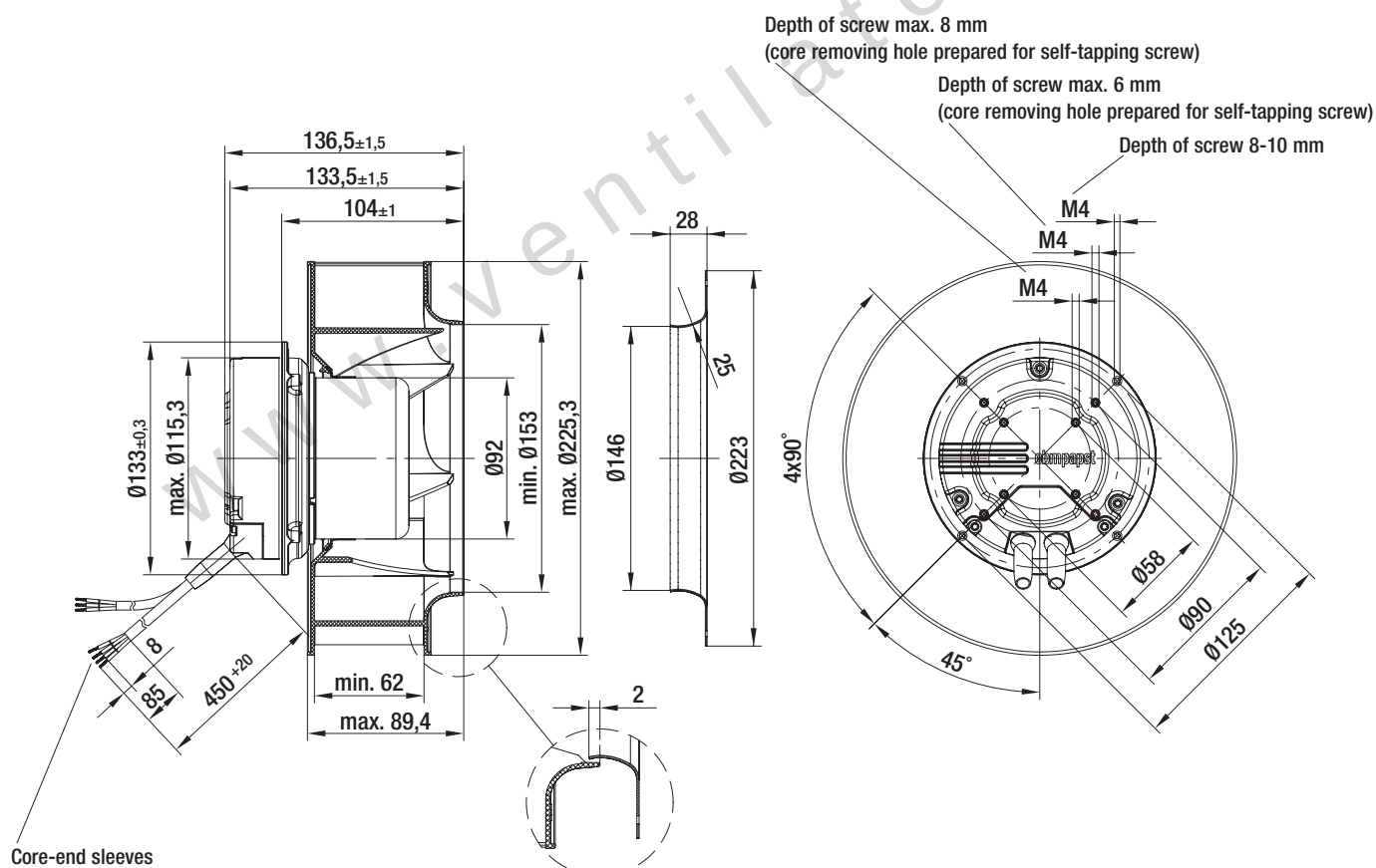
- **Technical features:**
 - PFC (passive)
 - Control input 0-10 VDC / PWM
- **EMC:** Interference emission acc. to EN 61000-6-3
Interference immunity acc. to EN 61000-6-1
Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 60950-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, EN 61800-5-1, EN 60950-1, CE
- **Approvals:** UL, CSA, CCC, GOST are applied for
- Output 10 VDC max. 1.1 mA
- Tach output
- Over-temperature protected electronics / motor



Mass of centrifugal fan



Centrifugal fan	kg	Inlet nozzle (long)
R3G 225-AH71 -01	2.3	96358-2-4013



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- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **Mounting position:** Shaft horizontal or rotor on top; rotor on bottom on request
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

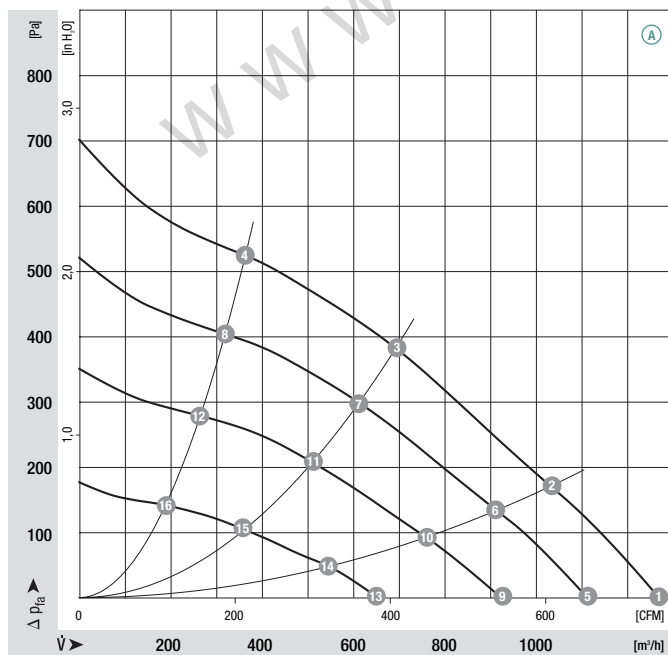
Nominal data

Type	Motor	Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Perm. amb. temp.	Electr. connection
R3G 225	M3G 074-CF	Ⓐ	1~ 200-277	50/60	3010	165	1.20	-25 to +60	p. 603

subject to alterations

(1) Nominal data in operating point with maximum load and 230 VAC

Curves



	n [rpm]	P ₁ [W]	I [A]	L _{pA} [dB(A)]	η _{IL} [%]
Ⓐ 1	3010	139	1.00	71	—
Ⓐ 2	2930	153	1.10	67	43
Ⓐ 3	2900	162	1.20	63	52
Ⓐ 4	2970	148	1.10	68	39
Ⓐ 5	2640	97	0.70	68	—
Ⓐ 6	2600	105	0.80	64	44
Ⓐ 7	2570	116	0.90	60	57
Ⓐ 8	2605	100	0.80	65	43
Ⓐ 9	2190	59	0.50	65	—
Ⓐ 10	2150	67	0.50	61	46
Ⓐ 11	2135	71	0.60	55	56
Ⓐ 12	2160	62	0.50	59	44
Ⓐ 13	1540	27	0.20	61	—
Ⓐ 14	1530	29	0.20	53	43
Ⓐ 15	1520	31	0.30	47	55
Ⓐ 16	1530	28	0.20	50	42

- **Technical features:**
 - PFC (passive)
 - Control input 0-10 VDC / PWM
- **EMC:** Interference emission acc. to EN 61000-6-3
Interference immunity acc. to EN 61000-6-1
Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 60950-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, EN 61800-5-1, EN 60950-1, CE
- **Approvals:** UL, CSA, CCC, GOST are applied for
 - Output 10 VDC max. 1.1 mA
 - Tach output
 - Over-temperature protected electronics / motor



Mass of centrifugal fan



Centrifugal fan	kg	Inlet nozzle (long)
R3G 225-AH54 -01	2.3	96358-2-4013

